MODERN WEB DEVELOPMENT WORKSHOP-2

Assignment – 1

Name of the assignment -Implementation of JavaScript

1. Write a JavaScript program to display digital clock and update clock time in every second.

Hints: use setInterval(function, miliseconds) or setTimeout(function, miliseconds)
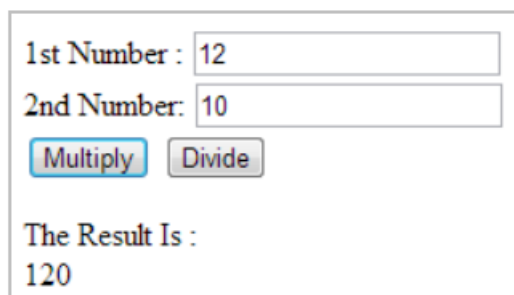
date = new Date();

h=date.getHours();

m=date.getMinutes();

s=date.getSeconds();

2. Write a JavaScript function to check whether a given value is a valid URL or not.

3. Write a JavaScript program to calculate multiplication and division of two numbers (input from the user).

1st Number : 12
2nd Number: 10
[Multiply] [Divide]

The Result Is :
120

4. Write a JavaScript program to find the missing number.

5.Write a JavaScript function to display whether given number is prime or not.

6. Write a JavaScript function that takes an array of numbers and returns a new array with only the even numbers.

7. Write a JavaScript function to find the sum of all the numbers in an array.

8. Write a JavaScript function that accepts an argument and returns the type.

9. Write a JavaScript program that creates a class called University with properties for university name and departments. Include methods to add a department, remove a department, and display all departments. Create an instance of the University class and add and remove departments.

10. Write a JavaScript program that creates a class `Book` with properties for title, author, and publication year. Include a method to display book details. Create a subclass called 'ebook' that inherits from the 'Book' class and includes an additional property for book price. Override the display method to include the book price. Create an instance of the 'ebook' class and display its details.